GE23131-Programming Using C-2024

Quiz navigation

Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Wednesday, 20 November 2024, 1:14 PM
Duration	33 days 4 hours

Question **1**

Correct

Marked out of 3.00

⚑ Flag question

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.

The lines after that contain a different values for size of the chessboard

Output format:

Print a chessboard of dimensions size * size. Print a Print W for white spaces and B for black spaces.

Input:

2

3

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int x,s;
    scanf("%d",&x);
    while(x--)
    {
        scanf("%d",&s);
        for(int i=0;i<s;i++)
        {
            for(int j=0;j<s;j++)
            {
                if((i+j)%2==0)
                {
                    printf("W");
                }
                else
                {
                    printf("B");
                }
            }
        }
    }
}
```

```
24        }
25        return 0;
26 }
```

	Input	Expected	Got	
✓	2 3 5	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

⚑ Flag question

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Sample Input / Output

Input:

2

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int a,b;
    char ch;
    scanf("%d",&a);
    while(a--)
    {
        scanf("%d %c",&b,&ch);
        for(int i=0;i<b;i++)
        {
            for(int j=0;j<b;j++)
```

```
16              if((i+j)%2==0)
17              {
18                  printf("W");
19              }
20              else
21              {
22                  printf("B");
23              }
24          }
25          else
26          {
27              if((i+j)%2==0)
28              {
29                  printf("B");
30              }
31              else
32              {
33                  printf("W");
34              }
35          }
36      }
37      printf("\n");
38      }
39      }
40      return 0;
41 }
```

	Input	Expected	Got	
✓	2 2 W 3 B	WB BW BWB WBW BWB	WB BW BWB WBW BWB	✓

Question 3

Correct

Marked out of 7.00

⚑ Flag question

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

10203010011012

**4050809

****607

If N= 4, then pattern will be:

1020304017018019020

**50607014015016

****809012013

******10011

Constraints

2 <= N <= 100

Input Format

Output

First line print Case #i where i is the test case number

In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int p,q,r,s,t=1,u,ans,v;
    scanf("%d",&p);
    while(t<=p)
    {
        scanf("%d",&q);
        printf("Case #%d \n",t);
        s=1;
        u=1;
        v=0;
        while(s<=q)
        {
            r=1;
            ans=(q*q);
            ans=ans-v;
            while(r<=2*q)
            {
                if(r<=q)
                {
                    if(r<s)
                    {
                        printf("**");
                    }
                    else if(r<=q)
                    {
                        printf("%d",u*10);
                        u++;
                    }
                }
```

```
34                    if((r+s)==(2*q)+1)
35                    {
36                        printf("%d",(ans+s));
37                        ans++;
38                        v++;
39                    }
40                    else if(r+s<=(2*q)+1)
41                    {
42                        printf("%d",(ans+s)*10);
43                        ans++;
44                        v++;
45                    }
46                }
47                r++;
48            }
49            s++;
50        printf("\n");
51    }
52    t++;
```

	Input	Expected	Got	

4	**4050809	**4050809
5	****607	****607
	Case #2	Case #2
	1020304017018019020	1020304017018019020
	**50607014015016	**50607014015016
	****809012013	****809012013
	******10011	******10011
	Case #3	Case #3
	10203040...	10203040...

Case #2
1020304017018019020
**50607014015016
****809012013
******10011
Case #3
1020304050260270280290 30
**60708090220230240 25
****100110120190200 21
******13014017018
********15016

Passed all tests! ✓

Finish review